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PHASE I BOOK EXPLOITATION

SOV/1720

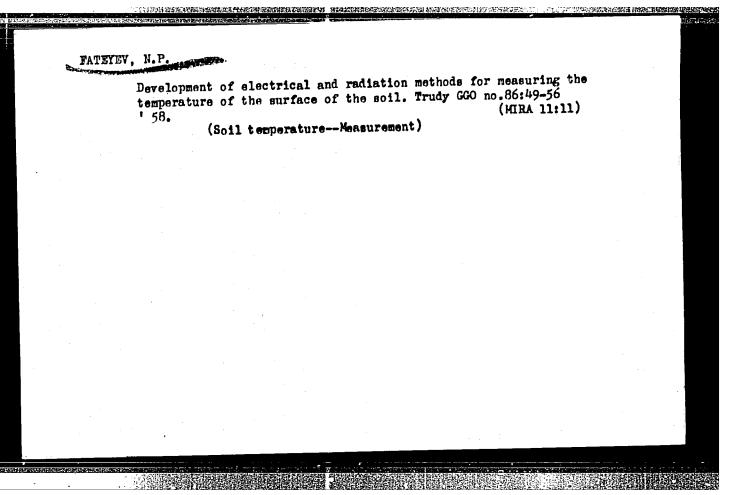
Leningrad. Glavnaya geofizicheskaya observatoriya.

- Voprosy razrabotki meteorologicheskikh priborcv (Problems in the Development of Meteorological Instruments) Leningrad, Gidrometeoizdat, 1958. 49 p. (Series: Its: Trudy, vyp. 83) 1350 copies printed.
- Additional Sponsoring Agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed. (Title page): M.S. Sternzat, Candidate of Physical-Mathematical Sciences; Ed. (Inside book): M.M. Yasnogorodskaya; Tech. Ed.: A.N. Sergeyev.
- PURPOSE: This issue is intended for scientific personnel engaged in the construction and use of meteorological instruments.
- COVERAGE: In general, this booklet covers descriptions of new instruments and problems encountered in their development. It also describes methods used for selecting the optimum interval for averaging the velocity of the wind and for determining the aggregate composition of fogs. The instruments described in detail include a new Card 1/3

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	Problems in the Development (Cont.) SOV/1720		
	automatic condensation hygrometer, a simple device for determin the composition of fog, a field radiometer, a device for measur temperature, apparatus for actinometric observations and a devi for measuring winds of high velocity. No personalities are men Bibliographies follow each article.	ing ce	
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	Fateyev, N.P. New Automatic Condensation Hygrometer	3	
	Andreyev, I.D. Selection of the Optimum Interval for Averaging Wind Velocity	20	
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Aleksandrov, V.S. Temperature Measurement Device Svarchevskiy, V.N. An Instrument for Registering the Velocity and Gusts of High Winds AVAILABLE: Library of Congress MM/sfm 5-25-59 Card 3/3	Problems in the Development (Cont.)	SOV/1720	Main
AVAILADLE: Library of Congress MM/sfm 5-25-59	Aleksandrov, V.S. Temperature Measurement Device		40
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ZAYTSEV, Vasiliy Aleksandrovich; LEDOKHOVICH, Aleksey Aleksandrovich; FATEYEV, N.P., otv.red.; PROTOPOPOV, V.S., red.; VOLKOV, N.V., tekhn.red.

[Instruments and the study of clouds from an airplane] Pribory i metodika issledovaniia oblakov s samoleta. Leningrad, Gidrometeor.isd-vo, 1960. 175 p. (MIRA 13:7) (Aeronautics in meteorology) (Meteorological instruments) (Clouds)

是是是我们的**是我们是我们的现在分词是我们的对象的,这个人**是一个人,但是我们就是我们的,我们就是我们就是我们的,我们也是不是一个人,也是不是一个人,他们就是这个人

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3,5800 (1395)

AUTHOR:

Fateyev, .P.

TITLE:

Station dew-point hygrometer

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 11, 1961, 31-32, abstract 11 A256 (Tr. Gl. geo-

fiz. observ., 1960, no. 103, 45-56)

A description is given of a new hygrometer for mass measurements of air humidity in hydrometerological stations. A brief review is given of the latest developments of hygrometric techniques in field conditions and in particular at temperatures below the freezing point. For this purpose the highest precision is obtained using the dew-point method, and this principle was employed in the described instrument. A characteristic feature of the instrument is the electrical method of fixing the dew-point with a simultaneous phase determination of the condensate (supercooled water or ice). Incorrect determination of the phase leads to large

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Station dew-point hygrometer

errors of measurements, e.g. at -40°C and relative humidity 100% the error is ~30%. The phase condition was determined by taking advantage of the difference in resistivity between foils of ice and water. A high-temperature resistant enamel named 'metal'vin" in the form of foils was found to be the most suitable as the dielectric for measuring the resistivity. Two lengths of 0.5 mm diameter copper wire covered with a layer of enamel 10 to 15 microns thick were used as the measuring contact electrodes, the inter-electrode were used as the measuring contact electrodes, the inter-electrode resistance being 10 to 106 ohm for the liquid state and 10 to 108 ohm for ice. The metallic mirror of the hygrometer was cooled by means of a thermoelectric refrigerator using semiconductor thermocouples supplied with current (~ 6 to 8 amp) from a battery. The temperature of the mirror was measured using a copper wire resistance thermometer with a non-balanced bridge circuit. For the phase determination of the condensate a circuit was devised using an electrometric tetrode tube 1917 (1E1P) with the measuring electrodes placed on the surface of the mirror connected to the grids and the output arm of the bridge including the indicating microammeter to

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Station dew-point hygrometer

the anode chain of the tube. The measurements of humidity were performed by switching on the refrigerator current and noticing the temperature on the scale of the microammeter at the moment when the pointer changed the direction of the deflection. Subsequently, the refrigerator was switched off and the phase was determined from the observed deflection: a deflection of 2 to 3 divisions corresponding to ice, and 10 and more divisions to water. The hygrometer is suitable for measuring the dew-point temperature in the range from +40 to -60°C with an error not exceeding ± 0.5°C. The time constant of the hygrometer is ~100 sec; the weight (excluding electrical supplies) is 3 kg. An error analysis is given, and the conditions minimizing the errors are specified. The results of laboratory and field tests are presented together with the obtained error distribution; errors of 50% of the measured results are within 1.5 to 2% and only errors of 10 to 12% of the results exceed 7%. The control measurements were performed against readings of a standard psychrometer. 10 figures. 25 references. Abstracter's note: Complete translation

Card 3/3

9.6110 (3002,2605,1063) 3.5140 (2305,2405)

s/531/60/000/103/002/002

AUTHOR: Fateyev, N.P.

Measurement of the Vertical Component of Wind Velocity by Ultrasonic TITLE:

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Methods

Glavnaya geofizicheskaya observatoriya. Trudy, no. 103, 1960. SERIAL:

Voprosy razrabotki meteorologicheskikh priborov, 85-89

TEXT: Measurement of the vertical component of wind velocity is very important in the study of turbulent characteristics of the atmosphere, but existing methods of measuring it with hot-wire anemometers are unsatisfactory. This is because the observations are difficult to make, resulting data are difficult to process, and the apparatus itself is insufficiently accurate. A new method based on the determination of the additional velocity of propagation of an ultrasonic wave caused by vertical motion of the air, is proposed for measuring the vertical component of wind velocity. It is demonstrated that by measurement of change in velocity of ultrasonic wave propagation at a given moment it is possible to derive the desired value for W -- the true value of the vertical component of the velocity of movement of an air current. A general method for measuring ultrasonics is briefly mentioned. However, this method

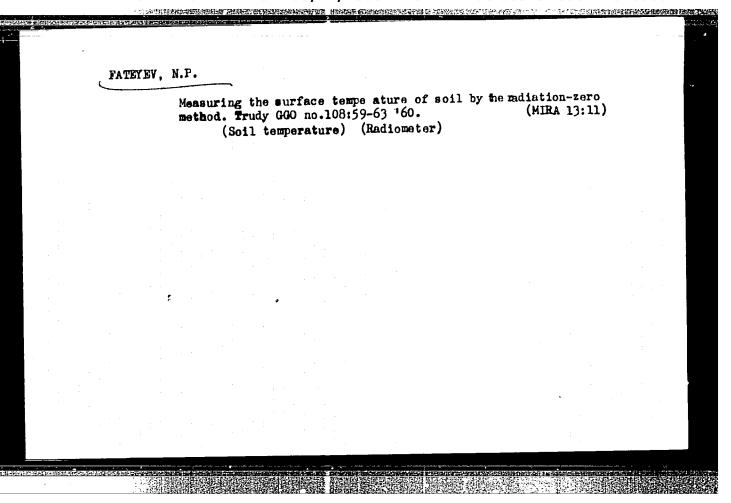
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Measurement of the Vertical Component of Wind Velocity... S/531/60/000/103/002/002

cannot eliminate errors, often of considerable magnitude, caused by variation of temperature, humidity, and pressure. Therefore, two other methods, based on application of a two-directional ultrasonic beam, which can lessen or even eliminate the errors, are described. Fig. 2 and 3 show the diagrams of instrument arrangement used in these methods. Fig. 4 shows how the ultrasonic converters should be set at some distance from the remaining instruments in order to eliminate distortions. Experiments were required to find satisfactory miniature converters. Fig. 5 shows two types of converters. The first (Fig. 5a) is fabricated in the form of a cylinder of barium titanate. A plate attached to the butt of this converter serves as a source of ultrasonic vibrations; their frequency is dependent on the length of the cylinder. Exceedingly small condenser microphones (Fig. 5b) may also be used. The ultrasonic method is unquestionably superior to other methods and it is possible to construct a low-inertia, virtually distortion-free, highly adaptable instrument to employ the ultrasonic principle. The instrument scale can readily be made linear and graduated directly into units of velocity. There are 5 figures and 2 Soviet references.

Card 2/2



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Use of piezoelectric converters in measurin meteorological elements. Trudy GGO no. 112:3-13 '63. (MIRA 17:5)

AUTHOR: Fateyev, P., Department Head

: 27-58-7-9/27

TITLE:

To Improve the Methods of Laboratory Work (Sovershenstvovat'

一个中华中国共享的数据,但是中华中国的特别的特别的特别的特别的特别的,但是中华中国的特别的特别的特别的特别的特别的特别的特别的特别的一个一个一个一个一个一个一个

metodiku laboratornykh rabot)

PERIODICAL:

Professional'no-tekhnicheskoye obrazovaniya, 1958, ANr 7,

pp 17-19 (USSR)

ABSTRACT:

Instruction methods and equipment have considerably improved in the past 4 years in the Schools of Mechanization of Agriculture of the Altay Kray. New buildings have been constructed, containing class rooms and workshops. Diesel tractors, combines and soil-cultivating machines of the latest construction are at the disposal of the students. Most of the training personnel for theoretical instruction and practical work in laboratories are graduates of higher schools. There still exist a few deficiencies in some of these schools caused by inadequate practical instruction. Practical laboratory work is poorly organized so that students do not know how to handle simple instruments or how to detect defects in machinery. For that reason, it is suggested that more attention should be paid to assembly work, machine maintenance and repair. Experiments conducted along these lines in a few schools have already led to satisfactory results.

Card 1/2

To Improve the Methods of Laboratory Work

27-58-7-9/27

ASSOCIATION: Uchilishcha mekhanizatsii sel'skogo Khozyaystva Altayskogo krayevogo upravleniya trudovykh rezervov (Schools for the Mechanization of Agriculture of the Altay Kray Labor Reserve Administration)

中,我们是是我们的一个人,我们们也不是我们的,我们们的人,我们们的人,我们们们的人,我们们们的人,我们就是我们的人,我们是我们的人,我们们的人,我们们就是我们的

1. Agriculture--USSR 2. Personnel--Study and teaching

Card 2/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

SOV/27-59-2-10/30 22 (1) Ryabov, N., Chief, Fateyev, P., Chief AUTHORS: How to Improve and Reduce Costs in Training Agricultural TITLE: Machine-Operators (Kak uluchshit' i udeshevit' podgotovku mekhanizatorov sel'skogo khozyaystva) A Self-Supporting School of Mechanization (Samookupayemost' v uchilishche mekhanizatsii) Professional no-tekhnicheskoye obrazovaniye, 1959, Nr 2, PERIODICAL: pp 16 - 18 (USSR) The authors examine the possibilities of improving practical ABSTRACT: training in the schools of agricultural mechanization and of placing them on a partially self-supporting basis. This can be accomplished by considerably expanding the training and production program, especially the size of the training farms, and by establishing non-state-financed repair shops for the surrounding kolkhozes. Every school of mechanization trains 450-500 boys and girls. If their work is properly organized, it is possible to do not only all the agricultural work of a large training farm and to repair the school's equipment but also repair machinery of neighboring kolkhozes. Card 1/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

How to Improve and Reduce Costs in Training Agricultural Machine-Operators A Self-Supporting School of Mechanization

是一个人,不是一个人的人,不是一个人的人,但是一个人的人,也是一个人的人,也是一个人的人,也是一个人的人,也是一个人的人,也是一个人的人,也是一个人的人,也是一

Existing training farms of only 200 to 300 ha, but with large numbers of students cannot be profitably productive. The size suggested is 3,000-4,000 ha with the prospects for expansion. The Klyuchi Rayispolkom has assigned 4,311 ha to a school for a training farm. The experience already gained by the school and its future plans are described in the article. Dealing with problems of education, the authors pounts out that, in the near future, schools of agricultural mechanization will be reorganized into agricultural vocational-technical schools. They consider it expedient to have mixed schools with both a 1 and 2 year training period. The students graduating from 8-year schools at 17 cannot work independently on complicated machines. They must go through a lengthy probationary period in secondary positions. The authors deal extensively with ways for the schools to achieve financial independence, and point out that the Pospelikha School of Mechanization gained a profit of 375,000 rubles in 1957. Calculations have shown that a training farm, repair shops, and the economic exploitation of school machinery can yield a yearly income of over

Card 2/3

sov/27-59-2-10/30

How to Improve and Reduce Costs in Training Agricultural Machine-Operators A Self-Supporting School of Mechanization

> 3 million rubles, if the studens' work is properly organized. The teaching staff of the Chistyun'skoye uchilische mekhanizatsii (Chistyun'ka Mechanization School) has taken over the complete technical equipment from the former Zarechnaya RTS for the repair of 300 tractors per year, and is performing repair work to gain a partially self-supporting basis.

ASSOCIATION: Altayskoye krayevoye upravleniye trudovykh rezervov (Altay Kray Administration of Labor Reserves) and Otdel uchilishch mekhanizatsii (Section for Mechanization/Institutes).

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Card 3/3

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

RYABOV, N. FATEYEY, P. Branches of mechanisation schools. Prof.-tekh. obr. 18 no.2:7-8
[MIRA 14:3]

F 161.

1. Nachal'nik Altayskogo krayevogo'upravleniya professional'notekhnicheskogo obrazovaniya (for Ryabov).

2. Machal'nik otdela uchilishch mekhanizatsii sel'skogo khosyaystva Altayskogo krayevogo upravleniya professional no-tekhnicheskogo obrasovaniya (for Fateyev). (Alter Territory-Farm mechanisation-Study and teaching)

CIA-RDP86-00513R000412510006-2" APPROVED FOR RELEASE: 08/22/2000

RYABOV, N.; FATEYEV, P.

Scientific achievements and the practice of progressive workers are the basis for the training of machine operators. Prof.-tekh. obr. 19 no.4:3-4 Ap '62. (MIRA 15:4)

1. Nachal'nik Altayskogo krayevogo upravleniya professional'notekhnicheskogo obrazovaniya (for Ryabov). (Altai Territory--Farm mechanization--Study and teaching)

We are improving the methods of laboratory work. Prof.-tekh. obr.

22 no.9136-38 S '65.

1. Zamestitel' nachal'nika Altayskogo krayevogo upravleniya
professional'no-tekhnicheskogo obrazovaniya (for Fateyev).

2. Tal'menskoys sel'skoye professional'no-tekhnicheskoye
uchilishche (for Kudashkin).

FATEYEV, P.G., inzh.; ADAYEV, V.P., inzh.

Building a fully prefabricated factory building with a flat reservoir roof. Prom. stroi. 41 no.8:10-15 Ag '64. (MIRA 17:11)

BUZINIYER, M.I.; VOROPAY, A.P.; DRUGOV, I.P.; YEVDOKIMOV, I.I.; KANTOR, V.V.; KOMARNITSKIY, Yu.A.; MAKSIMENKO, I.I.; PAVLOVSKIY, V.V.; CHEREDHICHENKO, Yo.T.; FATEYEV, P.Yo., red.; VERINA, G.P., tekhn.red.

CHARLE BESTERN AND WITH THE PLANT OF THE PROPERTY OF THE PROPE

[Socialist competition in railroad transportation; collected articles] Sotsialisticheskoe sorevnovanie na zheleznodorozhnom transporte; sbornik statei. Moskva, Gos.transp.zhel-dor. (MIRA 12:12) izd-vo, 1959. 222 p. (Railroads)

VOROPAY, A.P.; ASHIN, G.K.; GONCHARUK, S.I.; MAKSIMENKO, I.I.; SUSIYAYEVA, Ye.L.; SHEMANIN, G.M.; SHEMENEV, G.I., kand. filos.nauk, red.; FATEYEV, P.Ya., retsenzent; VOLKOV, P.S., retsenzent; PESKOVA, L.N., red.; BOBROVA, Ye.N., tekhn. red.

[Communist labor of railroad workers] Kommunisticheskii trud zheleznodorozhnikov. Moskva, Transzheldorizdat, 1962. 72 p. (MIRA 15:7)

(Railroads-Employees) (Socialist competition)

VOROPAY, A.P.; VYZHEKHOVSKAYA, M.F.; DRUGOV, I.P.; KOMARNITSKIY, Yu.A.;
MAKSIMENKO, I.I.; PAVLOVSKIY, V.V.; STEPANOV, D.A.;
CHEREDNICHENKO, Ye.T.; GANKIN, N.B., retsensent; PATEYEV.
P.Ya., retsensent; PESKOV, L.N., red.; DROZDOVA, N.D., tekhn.red.

[Competition for communist labor in railroad transportation]
Sorevnovanie za kommunisticheskii trud na zheleznodorozhnom
transporte. Moskva, Transzheldorizdat, 1963. 158 p.
(MIRA 16:9)

(Socialist competition) (Railroads—Employees)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

FATEYEV, S. (g. Minsk)

Productivity of various methods of milking cows by machine. Sots. trudy 5 no.6:137-138 Je '60. (MIRA 13:11) (Milking-Jabor productivity)

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S/115/60/000/011/002/013 B019/B058

AUTHOR:

Fateyev. S. G.

TITLE:

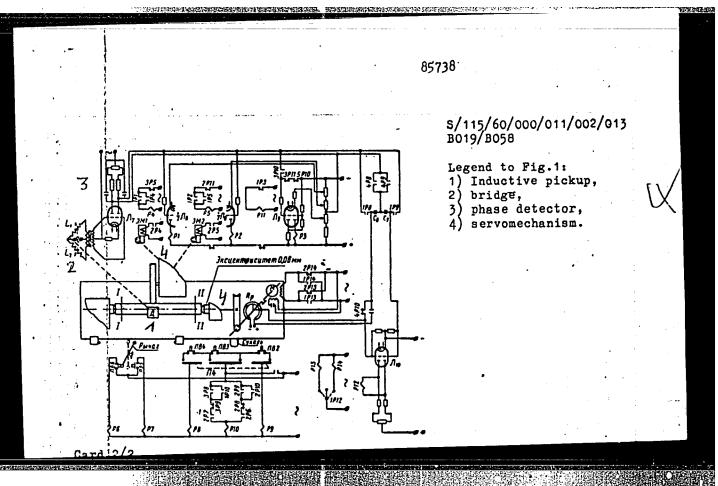
Active Conicity Control for Machining on Circular Grinders

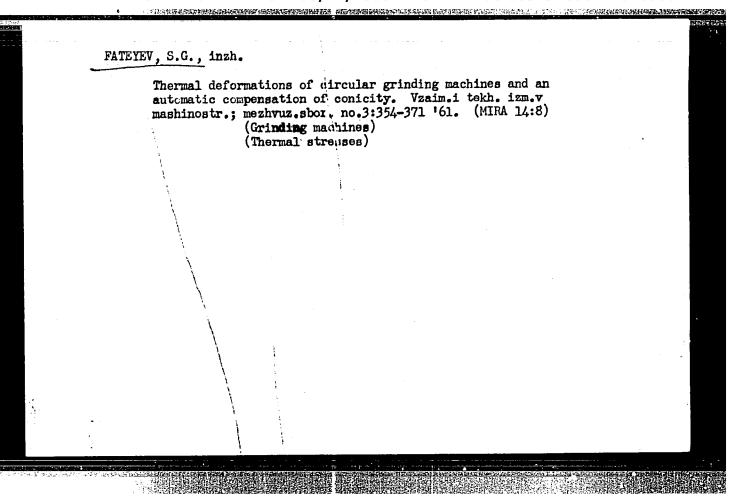
PERIÓDICAL: Izmeritel'naya tekhnika, 1960, No. 11, pp. 13 - 14

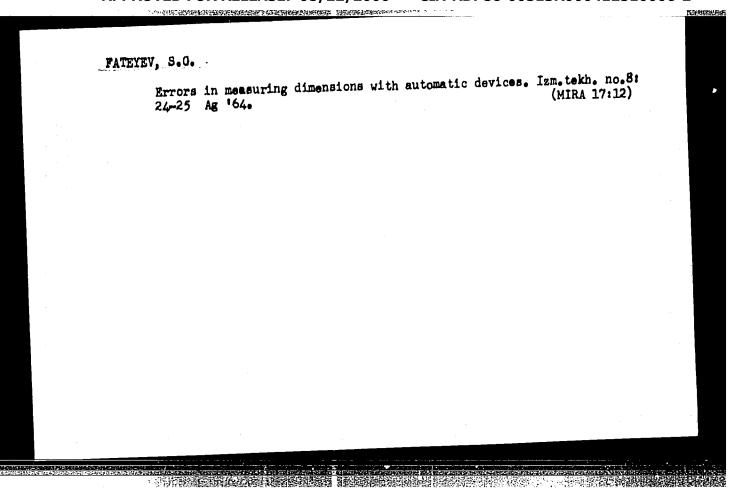
TEXT: A scheme is proposed for a device which enables compensation of deviations from the cylindrical form (conicity) occurring during cylindrical grinding. The device consists of an electric block with inductive pickup, the final control organ performing the automatic compensation for conicity, a further final control organ for controlling the machining and a distributor system. The inductive pickup is connected to a bridge. The voltage at the bridge output and the amplified voltage at the phase-detector output thus depends on the deviations of the work-piece measurements from the required dimension. A servomechanism controlled by an electronic relay corrects the position of spindle and grinding wheel. There are 1 figure and 1 Soviet reference.

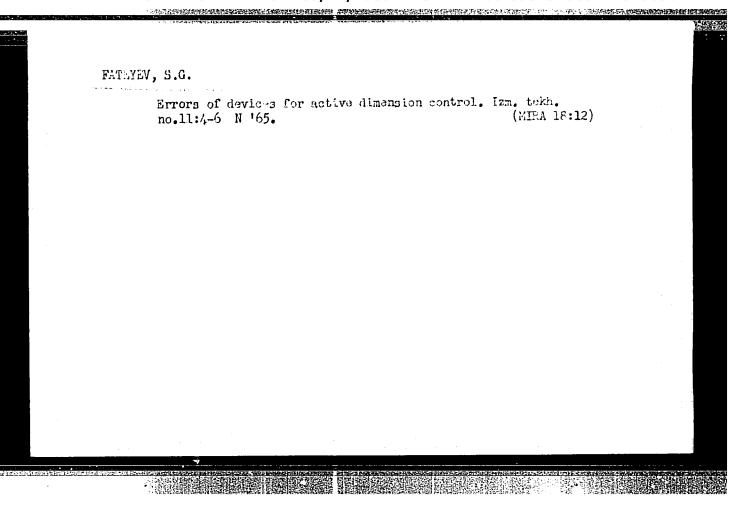
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KHORIH, Vinaimir Hikitovich, doktor tekhn. nauk; FATEYAV, bergey.
Nikolayevich, inzh.; CHEMWEHEV, Andrey Ivanovich, inzh.

[High-torque hydraulic motors in mining machinery construction] Vynokomomentnye gidrodvigateli v gornom mashinostroenii. Moskva, Nedra, 1964. 116 p. (MIR4 17.8)

AUTHORS: Artyukh, M.; Fateyev, V.; Zhiv, V.; Shirin, Yu. TITLE: The effect of monoamineoxidase inhibitors on the convul bemegride SOURCE: AN LatSSR. Izvestiya, no. 1, 1964, 59-62 TOPIC TAGS: analeptic drugs, bemegride, convulsion, monoamine oxidase inhibitor, hydrazide, benzylhydrazide of lactic acid, y adrenergic processes, reserpine, pyrogallol, aminazine ABSTRACT: The present investigation was undertaken to study th between the role of the analeptic drug bemegride in causing con effect of certain monoamineoxidase inhibitors, such as benzylhy acid, isopropylhydrazide, yprazide, transamine, imypramine, res pyrogallol. The tests were conducted using the technique x ² , as Belen'kiy (Elementy* kolichestvennoy otsenki farmakologicheskog 1959), with the participation of the staff of the department of	oxidase, monoamine prazide, transamine, e relationship
SOURCE: AN LatSSR. Izvestiya, no. 1, 1964, 59-62 TOPIC TAGS: analeptic drugs, bemegride, convulsion, monoamine oxidase inhibitor, hydrazide, benzylhydrazide of lactic acid, y adrenergic processes, reserpine, pyrogallol, aminazine ABSTRACT: The present investigation was undertaken to study the between the role of the analeptic drug bemegride in causing conseffect of certain monoamineoxidase inhibitors, such as benzylhydicid, isopropylhydrazide, yprazide, transamine, imypramine, reservogallol. The tests were conducted using the technique x², as selen'kiy (Elementy* kolichestvennov otsenki farmskologichoskom	oxidase, monoamine prazide, transamine, e relationship
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Riga Medical Institute. In the first series of experiments, connice, isopropylhydrazide, benzylhydrazide yprazide, and transam:	drazide of lactic erpine, and s described by M. L. o effekta. Riga, pharmacology of the
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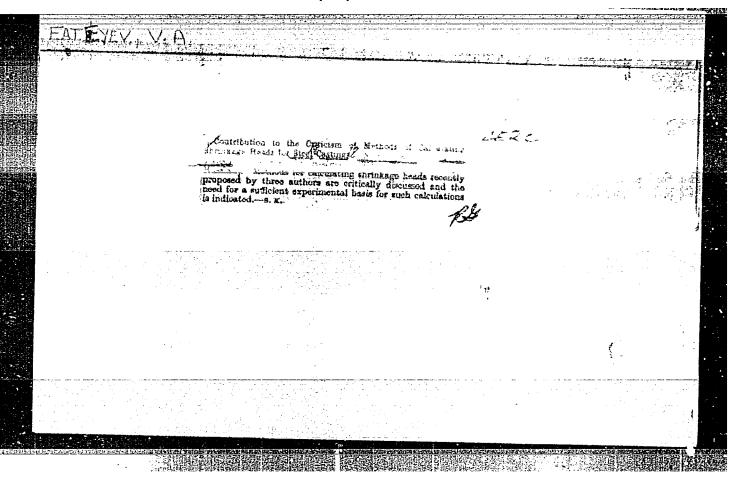
ACCESSION NR: AP4024552

intraperitoneally in respective doses of 100, 25, 100, and 10 mg/kg, following which 20 mg/kg of bemegride were introduced intraperitoneally after 3, 12, 24, or 48 hours. It was observed, that in the 3-hour interval injection all inhibitors facilitated the onset of clonic convulsions. In the 24-hour interval injection only the benzylhydrazide of lactic acid exhibited an enhancing effect on the onset of convulsions, with 16 mice out of 20 being afflicted, as against 8 for the controls. In the second series of experiments, the bemegride was introduced intraperitoneally to mice within one hour following the intraperitoneal administration of 50 mg/kg imypramine or 10 mg/kg aminazine, or within 2 hours after the administration of 50 mg/kg of either ypramine or pyrogallol, or following 3 hours after the administration of either 2.5 mg/kg reserpine or of 200 mg/kg pyrogallol. It was found that reserpine, as well as pyrogallol, facilitated the onset of clonic convulsions by bemegride. In the third series of experiments, 30 mg/kg Bemegride were introduced intraperitoneally to mice after a 3-hour interval following the administration in the same manner of benzylhydrazide of lactic acid, of yprazide, or of transamine. While transamine proved practically ineffective, the administration of benzylhydrazide of lactic acid and of yprazide resulted in a marked increase in the number of mice afflicted with tonic convulsions, with most cases being fatal. It is concluded that the facilitating effect on the onset of tonic convulsions

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FATEYEV, V. A.		PA 255102	
	USSR/Metallurgy - Steel, Castings, Properties	Jul 52	
	"Density and Mechanical Properties of Strings Depending on the Type of Risers," V Fateyev, P.I. Kozheurov, Engr	eel Cast-	
	"Litey Proizvod" No 7, 26		
	Briefly discusses feeding of castings wi off risers and concludes that despite de in specific wt of castings made with app of these risers, av values of mech prope not affected significantly by the type of Experimentally investigates distribution osity in castings with breakoff and cut-	olication erties are of risers.	
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(HIRA 17:10)

FATEYEV, V.A., Rand. token. rank, dotsert; IPATOV, N.E., Pari. tekin. rank, dotsert

Analytic determination of the efficiency of risers. lzv. vys. ucheb. zav.; mashinostr. no.11:184-191 '63.

1. Chalyabirakly politekhnicheskiy institut.

IPATOV, N.K., kandidat tekhnicheskikh nauk; FATEYEV, V.A., kandidat tekhnicheskikh nauk.

Computational determination of deadheads. Lit.proixv.ne.7:20-25 Jl '56. (Founding)

(NIEA 9:9)

FATEYEV, V.A.; IPATOV, N.K.

Comparing various methods of calculating risers. Lit.proizv.
no.3:32-35 Mr 162. (MIRA 15:3)

(Risers (Founding))

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FATEYEV, V.A.; SMOLIN, N.A.

Signalling and control of the operation of the PP-350-IZ unit for the formation of capron filament. Khim.volok. no.3:64-67.
162. (MIRA 16:2)

1. Spetsial nove konstruktorskoye tekhnologicheskoye byuro mashin dlya proisvodstva khimicheskikh volokon (SKTB MKhV).

(Nylon) (Automatic control)

IPATOV, N. K., kand. tekhm. nauk, dotsent; FATEYEV, V. A., kand. tekhn. nauk, dotsent

Efficiency of risers. Isv. vys. ucheb. sav.; mashinostr. no.7:112-122 '62. (MIRA 16:1)

1. Chelyabinskiy pelitekhnicheskiy institut.

(Molding(Founding))

FATEYEV, V.A.; SMOLIN, N.A.

Automatic voltage regulation of a synchronous generator in a frequency controlled drive system. Khim. volok. no.4: 58-59 '63. (MIRA 16:8)

1. Spetsial'noye konstruktorsko-tekhnologicheskoye byuro mashin khimicheskikh voloko

Automatic regulation of the voltage of a synchronous generator in a frequency regulated electric drive system. Vest. alektroprom. 34 no.8:14-16 Ag '63. (MIRA 16:9) (Electric driving) (Electric generators)

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

SHESTAKOV, V.M.; FATEYEV, V.A.; SERIKOV, V.K.

Attachment to a loop oscillograph for measuring small shifts. Zav. lab. 31 no.8:1021-1022 '65. (MIRA 18:9)

1. Institut mashinovedeniya i avtomatizatsii.

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EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b)JD/WW/WB/RM IJP(c) UR/0365/65/001/003/0330/0334 ACCESSION NR: AP5014137 621.794.4 620.197.3 AUTHOR: Klyuchnikov, N. G.; Kipriyanov, N. A.; Laykhter, L. B.; Fateyev, V. D.; Shadrina, N. I. Investigation of the effect which various inhibitors have on the dissolution of iron oxides SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 330-334 TOPIC TAGS: corrosion corrosion rate, corrosion inhibitor, iron oxide ABSTRACT: The authors study the dissolution of iron oxides in mineral acids as well as in solutions of substances which form complex compounds with iron (citric acid and ammonium citrate) for eliminating slag in boilers at thermal electric power stations. Samples of ferrous oxides and mixed iron oxides were prepared by sintering powdered oxides in an argon atmosphere at 1200-1300°C. Ferric oxide specimens were sintered in air at 1300°. The specimens were cylindrical with a surface area of ~7 cm2. The inhibitors used were: BA-6 (a product of condensation of benzylamina and urotropin); PB-5 (a product of condensation of urotropin and ani-Card 1/3

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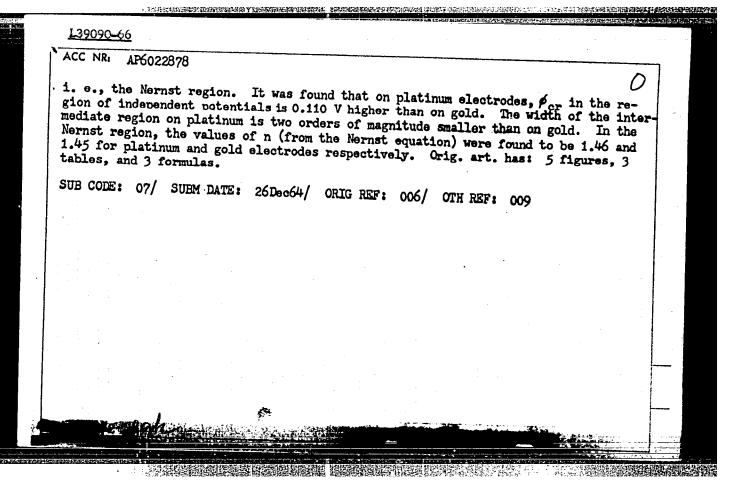
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line); I-1-A, which is a byproduct of the manufacture of 2-methyl-5-ethyl pyridine; "ChM" put out by Soviet Industry according to Technical Specifications MNP-521-54; a mixture of potassium iodide and urotropin; Katapin-A (paradodecylbenzylpyridinium chloride); and Katapin-K. Graphs and tables of the results are given. In most cases, the inhibitors retard the action of hydrochloric acid on both ferrous and ferric oxides. The rate of dissolution of FeO is increased only by I-1-A in 3N HC1 and BA-6 in 7N HC1. In 1N and 2N mixtures of hydrochloric and sulfiric acids, the rate of dissolution of FeO is reduced or somewhat increased by the presence of inhibitors. In a 5N mixture of these acids with a high content of hydrochlorid acid, the stimulating effect of the inhibitors reaches a maximum, and diminishes in 7N acids. Dissolution of Fe₂O₃ is retarded by inhibitors in all concentrations of sulfuric-hydrochloric acid mixtures studied. Certain concentrations of BA-6 inhibitor in hydrochloric acid and in a hydrochloric-sulfuric mixture accelerate the dissolution of FeO, and have the least effect on retardation of Fe₂O₃ dissolution in comparison with the other inhibitors. At the same time, BA-6 is the most effective agent for retardation of steel dissolution in these media. FeO and Fe3O4 dissolve faster in a solution of ammonium monocitrate than in solutions of citric acid. The most effective inhibitor for steel dissolution in citric acid and in ammonium citrate solutions is an additive of 0.1% Katapin and 0.017% Captax. This

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EWP(e)/EWT(m)/T/EWP(t)/ETI IJP(c) WH/DS/JD/7N SOURCE CODE: UR/0186/66/008/002/0206/0210 AP6022879 ACC NR: AUTHOR: Ziv, D. M.; Sukhodolov, G. M.; Fateyev, V. F.; ORG: none TITIE: Study of the electrochemical behavior of elements present in low and ultralow concentrations in solution. Part 2. Deposition of lead on graphite electrodes /5 SOURCE: Radiokhimiya, v. 8, no. 2, 1966, 206-210 TOPIC TAGS: lead, graphite, electrode potential, electrodeposition ABSTRACT: The paper continues a study of the dependence of the deposition potential of lead on its concentration in solution. The effect of the nature and concentration of the electrolyte on the value of the critical deposition potential $\phi_{\rm Cr}$ of lead on graphite electrodes was investigated by means of the method of polarization curves of the second kind. A study of the effect of solution acidity (0.1 and 3 N HNO₃) on for in the 10¹³-10⁻¹ g-ion/1 range of lead concentrations showed that the HNO₃ concentration has a substantial influence on the course of the dependence of fer on log centration has a substantial influence on the course of the dependence of fer on log centration that in the range of ultralow lead concentrations (from 10-12 to 10-7 g-ion/l. This influence is insignificant at lead concentrations above 10-6 g-ion/l. A study of the influence is insignificant at lead concentrations above 10-6 g-ion/l. A study of the dependence of \$\rightarrow{\gamma}{c}r\$ on log Cpb in 1 N perchloric and nitric acid solutions showed that the nature of these acids has no appreciable influence on this dependence. Values of

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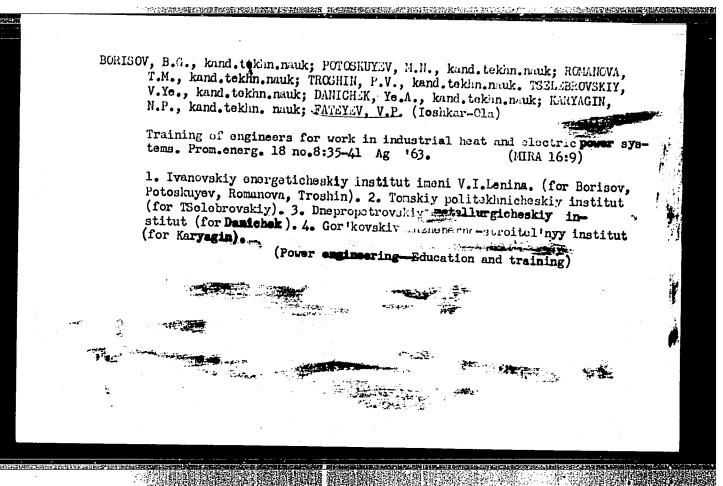
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AL'TSHULER, V.Ye., prof.; FATEYEV, V.N.

Important possibility for the improvement of breeding work with dairy cattle. Agrobiologiia no.1:110-116 Ja-F '65. (MIRA 18:4)

1. Ivanovskiy sel'skokhozyaystvennyy institut.



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FATEEV, E. M.

Vetrodvigateli. Izd. 2. dopoin. i perer. pod red. V. S. Shamanina. Moskva, Gosenergoizdat, 1946. 242 p. diagrs.

Windmills.

DLC: TJ825.F375 1946

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

。然后,我们就是<mark>是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就是这个人的,我们就</mark>

FATEYEN, Ye. M. Dr. Tech. Sci.

Dissertation: "Wind Motors and Wind Power Installations Theory, Design, Construction and Operation of Wind Motors." All-Union Inst. of Mechanization and Electrification of Agriculture - VIME 11 Nov 47.

SO: Vechernyaya Moskva, Nov, 1947 (Project #17836)

FATEEV, E. M.

Vetrodvigateli i vetroustanovki. Dop. v kachestve uchebn. posobiia dlia institutov i fakul'tetov mekhanizatsii sel'skogo khoziaistva. Moskva, Sel'khozgiz, 1948. 543 p. illus. (Uchebniki i uchebnye posobiia dlia vysshikh sel'skokhoziaistvennykh uchebnykh zavedenii)

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Windmills and wind turbines.

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SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

FATHEV, E. M.

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The D-18 windmill.

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Osnovy agregatirovaniya vetrodvigateley s rabochimi mashinami. Trudy Vsesoyuz. Nauch.-issled. in-ta mekhanizatsii sel. khoz-va, t. XII,

38164. FATEYEV, YE. M.

1949, s. 245-87

KARMISHIN, A.V.; FATEYEV, Ye.M., professor, nauchnyy redaktor; MEKEN-TSEV, V.A., redaktor, ARHLAMOV, S.N., tekhnicheskiy redaktor.

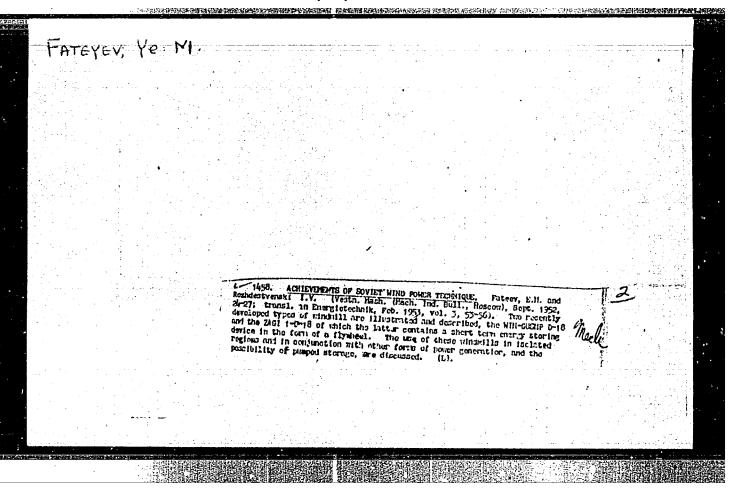
[Making use of the wind] Veter i ego ispol'zovanie. Pod nauchnoi red. E.M.Fateeva, Moskva, Gos. isd-vo tekhniko-teoret. lit-ry.
1951. 62 p. (Wauchno-populiarnaia biblioteka, no.29) [Microfilm]
(Wind power)

FATETEV, Ye M.

Vetrodvigateli i ikh primeneniye v sel'skom khozyaystve (Windmills and their use in agriculture) Moskva, Mashgiz, 1952.

271 p. tables, diagrs.

"Literatury": 269-(270)



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Isol'zovaniye Energii Vetra V Sel'skom Khosyaystvo (Utilization of Find Power in Agriculture, By) ALEKSANDR VASIL'YEVICH VINTAR I Ye. M. Futeyev. Moskva, Akudemii Mauk SSSK, 1955.

108 P. Illus., Diagrs., Graphs, Tables (Nauchng-Populyarnaya Seriya V Pomoshch' Sel'skom Khozyaystvu)

At Head of Title-Page: Akudemiya Nauk SSSR. Energeticheskiy Institut.

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FATEYEV, YEFIM MIKHAYLOVICH

VETRODVIGATELI I VETROUSTANOVKI
(WIND-DRIVEN GENERATORS AND WIND INSTALIATIONS)
2., PERER. IZD. MOSKVA, SEL'KHOZGIZ, 1956.
535 P. ILLUS., DIAGRS., GRAPHS,
TABLES. (UCHEBNIKI I UCHEBNYYE POSOBIYA DLYA VYSSHIKH SEL'SKOKHOZYAYSTVENNYKH UCHEBNYKI ZAVEDENIY)
"LITERATURA": P. 531-533.

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PHASE I BOOK EXPLOITATION

738

Fateyev, Yefim Mikhaylovich

- Metodika opredeleniya parametrov vetroenergeticheskikh raschetov vetrosilovykh ustanovok (Methods of Determining Parameters of Wind Energy Calculations of Wind-Power Installations) Moscow, Izd-vo AN SSSR, 1957. 87 p. 3,000 copies printed.
- Sponsoring Agency: Akademiya mauk SSSR. Emergeticheskiy institut imeni.G.M. Krzhizhanovskogo.
- Resp. Ed.: Vinter, A. V., Academician; Ed. of Publishing House; Shapovalov, I.K.
- PURPOSE: This book is intended for the use of engineers and technicians interested in wind-power installations.
- COVERAGE: Problems of wind-power engineering are discussed. Methodical diveractions for processing wind data are given and methods are described for setting up wind-velocity distribution curves and curves for determining the utilization factor and other characteristics of wind-power installations. Examples of the application of wind-energy parameters in designing wind-power installations are given. The author mentions reports of other investigators:

Card 1/3

Methods of Determing Parameters of Wind Energy (Cont.) 738 Professor Sreznevskiy (1889), M. M. Pomortsev (1894), G. A. Grinevich (1952), and V. T. Poltoratskiy (1954). He calls the present book a first attempt at methodical manual and emphasizes the necessity of further work in the field. The book contains 23 figures and 30 tables. There are 2 appendixes containing 11 tables.	3.
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Ch. 3. Method of Intermining Wind-Energy Calculation Parameters According to Neteorological Wind Data Output factor Load factor Utilization factor Card 2/3	35 35 41 41

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PATEYEV. Yefim Mikhayloyich, doktor tekhnicheskikh nauk, professor; ZHELI-GÖVSKIY, A.V., kandidat tekhnicheskikh nauk, dotsent, redaktor; PEDOTOV. V.Ye., kandidat tekhnicheskikh nauk, retsensent; MOIEL', B.I., tekhnicheskiy redaktor; SHIKIN, S.T., tekhnicheskiy redaktor.

[Wind motors and their use in agriculture] Vetrodvigateli i ikh primenenie v sel'skom khosiaistve. Isd.2-ce. dop. i perer. Moskva, Gos.nauchno-tekhn.isd-vo mashinostroit.lit-ry, 1957. 322 p. (MIRA 10:6)

1. Chlen-korrespondent Akademii sel'skokhosyaystvennykh nauk imeni V.I.Lenina(for Fateyev)

(Wind-mills)

FATEYEV, Yefim Mikhaylovich, doktor tekhn. nauk, prof.; LETNEV, B.Ya.,
FEG.; BALLOD, A.I., tekhn. red.

[Windmills and wind-driven installations] Vetrodvigateli i
vetroustanovki. 2., perer. isd. Moskva, Sel'khosgis, 1957.

535 p. (Windmills)

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HREMER, G.I., doktor tekhn.nauk, prof.; GALDIN, M.V., inzh.; DEMIN, A.V., kand.tekhn.nauk; KAPIJNOV, M.M., inzh.; KASHEKOV, L.Ya., inzh.; KOROLEV, V.F., kand.tekhn.nauk; KARIJNOV, M.M., inzh.; KASHEKOV, L.Ya., inzh.; KOROLEV, V.F., kand.tekhn.nauk; MAKAROV, A.P., inzh.; NOVIKOV, G.I., kand.tekhn.nauk; NOSKOV, B.G., inzh.; OLENEV, V.A., kand.vet.nauk; OSTANKOV, V.P., inzh.; PERCHIKHIN, A.V., inzh.; POKHVALENSKIY, V.P., kand.tekhn.nauk; SERAFIMOVICH, L.P., kand.tekhn.nauk; SWIRNOV, V.I., kand.tekhn.nauk; URVACHEV, P.N., kand.tekhn.nauk; FADEYEV, N.N., inzh.; FATEYEV, Ye.M.; KRYUKOV, V.L., red.; VESKOVA, Ye.I., tekhn.red.

[Reference book on the mechanization of stock farming] Sprayochnaia kniga po mekhanizatsii zhivotnovodstva. Moskva, Gos.izd-vo sel'khoz. lit-ry, 1957. 678 p. (MIRA 10:12)

1. Chlen-korrespondent Vsesoyuznoy akademii seliskokhozyaystvennykh nauk im. V.I.Lenina (for Krasnov, Fateyev).

(Farm equipment) (Stock and stockbreeding)

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PATEYEV, Ye.M.; ORLOVA, I.A., red.; GONCHAROV, N.G., tekhn.red.

[Wind-powered units; present status and prospects for development] Vetrosilovye ustanovki; sostoianie i puti razvitiia. Moskva, Vses.in-t nauchn. i tekhn.informatsii, 1959. 77 p. (MIRA 13:10)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Fateyev).
(Windmills)

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SOV/2570

PHASE I BOOK EXPLOITATION

Akademiya nauk SSSR. Energeticheskiy institut

- Voprosy vetroenergetiki (Problems in Wind Power Engineering)
 Moscow, Izd-vo AN SSSR, 1959. 135 p. Errata slip inserted.
 1,700 copies printed.
- Ed. of Publishing House: V. N. Golovko; Tech. Ed.: I. N. Guseva; Editorial Board: Ye. M. Fateyev, Corresponding Member, VASKhNIL, Professor (Resp. Ed.), D. N. Bystritskiy, K. P. Vashkevich, A. V. Karmishin, V. R. Sektorov, V. Ye. Fedotov, M. O. Frankfurt, G. I. Sholomovich.
- PURPOSE: The book is intended for power engineers, scientists, and research workers engaged in wind power engineering.
- COVERAGE: These articles discuss aspects of wind power utilization. Individual papers treat the aerodynamic properties of already existing windmills, the construction of new types of windmills, wind electric power stations, and efficient windelectric and wind-pumping units. A theory on the control of high-speed windmills is also discussed. The TSNILV (Central Card 1/4.

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PERCHIKHIN, Abram Vladimirovich, inzh.; KRASNOV, V.S.; KASHEKOV, L.Ya., inzh.; NOVIKOV, G.I., kand.tekhn.nauk; MAKAROV, A.P., inzh.; GALDIN, M.V., inzh.; KORCEEV, V.F., kand.tekhn.nauk; FATEYEV, Ye.M., doktor tekhn.nauk; FADEYEV, N.N., inzh.; ROZIN, M.A., red.; GUREVICH, M.M., tekhn.red.

[Mechanisation of heavy work on livestock farms] Mekhanisatsiia trudoemkikh rabot na shivotnovodcheskikh fermakh. Izd.4., ispr. i dop. Moskva, Gos.isd-vo sel'khoz.lit-ry, 1959.

(MIRA 13:10)

1. Chlen-korrespondent Vsesoyusnoy akademii seliskokhosyaystvennykh nauk imeni V.I.Lenina (for Krasnov). (Stock and stockbreeding) (Farm mechanisation)

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SABININ, G.Kh. (Moskva), FATETEV, Ye.M. (Moskva)

Existing conditions and prospects for the use of wind power in the U.S.S.R. IXV. AM SSSR. Otd. tekh. nauk. Energ. i avtom. no.6: 44-55 MyD '60. (Wind power)

(Wind power)

FATEYEV, Yefim Mikhaylovich, doktor tekhn. nauk, prof.; FAL'KO, O.S., inzh., red.; CHERNOVA, Z.I., tekhn. red.

[Windmills and their use in agriculture] Vetrodvigateli i ikh primenenie v sel'skom khoziaistve. zd.3., dop. i perer. Moskva, Mashgiz, 1962. 246 p. (MIRA 15:6)

1. Chlen-korrespondent Akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Fateyev).

(Windmills)

FATEYEV. Ye.M., doktor tekhn. nauk, prof., otv. red.; ORPIK, S.L., red. izd-va; POLYAKOVA, T.V., tekhn. red.; NOVICHKOVA, N.D., tekhn. red.

[Methods for the development of a wind power cadastre]Metody rasrabotki vetroenergeticheskogo kadastra. Moskva, Izd-vo Akad. nauk SSSR, 1963. 193 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Energeticheskiy institut.

2. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyay-stvennykh nauk imeni V.I.Lenina (for Fateyev).

(Wind power)

FATEYEVA, Ye.M.; TOTOCHENKO, V.K.; ROSHAL', N.I.; TROITSKAYA, N.A.

Differential diagnosis and treatment of some forms of ricketslike diseases in children. Pediatriia 42 no.9:69-74 S'63. (MIRA 17:5)

1. Iz kliniki rannego vozrasta (zaveduyushchiy - prof. I.V. TSimbler) biokhimicheskoy laboratorii (zaveduyushchiy - prof. A.A. Titayev) Instituta pediatrii (direktor - dotsent M.Ya. Studenikin) AMN SSSR.

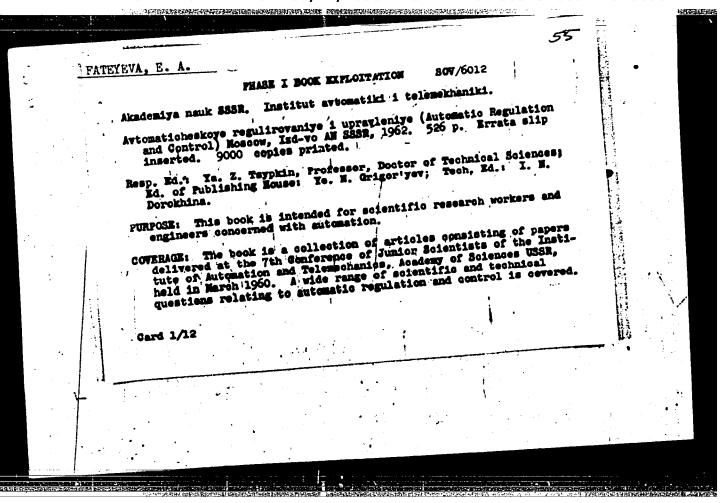
FOMIN, Ye.M.; FATEYEVA, A.A.

Use of additional ight for producing seeds of Primula obconica
Hance. Biul.Glav.bot.sada no. 48:91-92 '63. (MIRA 17:5)

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ZHUKOVSKIY, B.D., kand. tekhm. nauk; ZIL'EERSHTEYN, L.I., kand. tekhm. nauk; MIZERA, V.I., inzh.; PETRUNIH, Ye.P., inzh.; TATTYUK, C.Z., inzh.; MIZERA, V.I., inzh.; PETRUNIH, Ye.P., inzh.; RECHIPOREI K.D. M.I.; DUPLIY, Prinimali uchactiye: MATIAKHOV, L.I.; NECHIPOREI K.D. M.I.; DUPLIY, G.D.; GAPICH, V.I.; FATEYLVA, A.E.; DYN'KO, N.M.; LUGOVENKO, I.P.; DEM'YANOV, B.M.; POSTIL, I.S.; BEZRODNYKH, I.Ya.

Investigating the possibility of manufacturing welded tube blanks for cold forming. Prolzv. trub no.11:67-72 '63. [MIRA 17:11)



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RERLYAND, M.Ye.; GRACHEVA, V.P.; FATEYEVA, G.A.

Local prognosis of fog formation. Trudy GGO no.127:57-68 '62.

(MIRA 15:7)

(Weather forecasting) (Fog)

"APPROVED FOR RELEASE: 08/22/2000

CIA-RDP86-00513R000412510006-2

Fateyeva, G. Ia. AUTHOR:

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TITLE:

A Spectral Method for the Determination of Nickel in Cobalt Alloys, and the Determination of Cobalt in Nickel Alloys

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Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 461-461 (USSR)

ABSTRACT:

A method of determining oxides and salts of nickel and cobalt was worked out. Briquettes accurately dimensioned and made from a mixture of the annealed powder to be investigated and from electrolyte copper powder (1:5) were produced. The samples were pressed in special molds under a pressure of 5800 kg/cm², so that it was possible to record the spectrum 12 times. The standard generator PS-39 with an electrolyte copper electrode was used as a light source. The electric arc current had 6 amperes, exposure lasted 30 seconds and burning 10 seconds. Diapositive films with a high degree of contrast were used. Analysis was carried out by the method of three standard samples, which consisted of a synthetic mixture produced by the method

Card 1/2

APPROVED FOR RELEASE: 08/22/2000 CIA-RDP86-00513R000412510006-2"

A Spectral Method for the Determination of Nickel in Cobalt Alloys, and the Determination of Cobalt in Nickel Alloys

32-24-4-35/67

of a successive reduction of concentration. The concentration of admixtures was determined graphically. The accuracy of spectral analysis was fully confirmed by a comparison with results obtained by chemical analysis. The presence of from 0.001 to 1% iron is not noticeable. The duration of an analysis for one sample is given as being 3 hours and 20 minutes, and for 10 samples - 10 hours.

1. Cobalt alloys--Spectra 2. Nickel--Determination 3. Metals --Preparation 4. Spectrum analyzers--Performance

Card 2/2

38279 FATEYEVA, L. I. AND YELIZAROVSKIY, S. I.

O krovosnabzhenii loktevogo nerva. Sbornik trudov (Arkhang. gos. med. in-t),
vyp. 9, 1949, s. 78-85. - Bibliogr: 9 nazv.

L 18112-63 ACCESSION NR; AP3004504 AUTHOR: Nikolayev, V.S.; Dmitriyev, I.S.; Teplova, Ya, A.; Fateyeva, L.N. TITLE; Variation of the mean charge of fast ions as a function of the density of the medium /Raport presented at the Second All-Union Conference on the Physics of Electronic and Atomic Collisions held in Umbgorod 2-9 Oct 1962/ SOURCE; AN SSSR, Izvestiya, ser.fiz.,v.27, no.8, 1963, 1078-1080 TOPIC TAGS; ion charge, electron loss, electron capture, ionization loss, N ABSTRACT: The mean charge of uranium fission fragments, established incident to their passage through a gas, is known to increase with increasing gas density. According to N.Bohr and J.Lindhard (Kgl.danske ved.selskab.Mat.fys.medd.,28, No.7, cording to N.Bohr and J.Lindhard (Kgl.danske ved.selskab.Mat.fys.medd.,28, No.7, this is due to increase in the probability for loss of electrons from the excited states with decrease of the interval between successive ion-atom encounters. In the present work increase of the mean ion charge incident to increase in gas of the mean ion charge incident to increase in gas of the first was observed in experiments with 4.9 MeV (v = 8.2 x 108 cm/sec) triply density was observed in experiments with 4.9 MeV (v = 8.2 x 108 cm/sec) triply charged nifrogen ions. The cyclotron accelerated ions entered a 10 cm diameter charged nifrogen ions. The cyclotron accelerated ions entered a 10 cm diameter that the probability of the probability was observed in experiments with 4.9 MeV (v = 8.2 x 108 cm/sec) triply density was observed in charge of the mean ion charge in the chamber were anallyzed by a magnet and detected by proportional counters. The relative numbers \$\frac{\phi_1}{2}\$	AUTHOR: Nikolayev, V.S.; Dmitriyav, I.S.; Teplova, Ya.A.; Fateyeva, L.N. TITLE: Variation of the mean charge of fast ions as a function of the density of the medium /Report presented at the Second All-Union Conference on the Physics of Electronic and Atomic Collisions held in Uzhgorod 2-9 Oct 1962/ SOURCE: AN SSSR, Izvestiya, ser.fiz.,v.27, no.8, 1963, 1078-1080 TOPIC TAGS: ion charge, electron loss, electron capture, ionization loss, N ABSTRACT: The mean charge of uranium fission fragments, established incident to their passage through a gas, is known to increase with increasing gas density. According to N.Bohr and J.Lindhard (Kgl.danske ved.selskab, Mat.fys.medd., 28, No.7, cording to N.Bohr and J.Lindhard (Kgl.danske ved.selskab, Mat.fys.medd., 28, No.7, 1954), this is due to increase in the probability for loss of electrons from the excited states with decrease of the interval between successive ion-atom encounters. In the present work increase of the mean ion charge incident to increase in gas density was observed in experiments with 4.9 MeV (v = 8.2 x 108 cm/sec) triply charged nifrogen ions. The cyclotron accelerated ions entered a 10 cm diameter charged nifrogen ions. The cyclotron accelerated ions entered a 10 cm diameter 4.8 meter long collision chamber. The particles traversing the chamber were analyzed by a magnet and detected by proportional counters. The relative numbers \$\frac{\particles}{2}\$	nesus.		735.0
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L 18142-63 ACCESSION NR: AP3004504 of ions with different charges were determined at nitrogen pressures from 4×10^{-5} to 5×10^{-2} mm Hg. The results are shown in the figure (see Enclosure). At pressures under 10-3 mm Hg the experimental values of \$\Psi_i\$ and the mean charge i virtual ly agree; above 10-3 mm Hg the charge distribution in the ion beam approaches an equilibrium value and the \$1 curves level off. Above >10-2 mm Hg the mean charge begins to decrease with rising pressure owing to decrease in the ion velocity as a result of collision slowing down. Thus, gas at 10^{-2} mm Hg and up cannot be regarded as sufficiently rarified where passage of light element ions is concerned. This fact and the pressure variation of \$\display\$ in the region of lower pressures should be taken into account in using experimental data on \$\Phi_1\$ for determining electron loss cross sections on the basis of electron capture cross sections (and vice versa). Orig.art.has: 1 figure. ASSOCIATION: none ENCL: 01 DATE ACQ: 26Aug63 SUBMITTED: 00 OTHER: 004 NO REF SOV: SUB CODE: PH Card 2/12

DMITRIYEV, I.S.; NIKOLAYEV, V.S.; FATEYEVA, L.N.; TEPLOVA, Ia.A.

Study of the loss of several electrons by fast multiply charged ions. Zhur. eksp. i teor. fiz. 43 no.2:361-369 Ag '62.

(MIRA 16:6)

1. Institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta. (Ions) (Electrons)

FATELEVA, L.N.

56-5-4/55

AUTHOR TITLE

PER IODICAL ABSTRACT NIKOLAYEV, V. S., FATEYEVA, L.N., DMITRIEV, I.S., TEPLOVA, Ya.A.

Distribution of the Equilibium of the Charge of Nitrogen Ions

(Ravnovesnove raspredelenive zaryadov ionov azota. Russian)

Zhurn. Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 5, pp 965-968 (U.S.S.R)

11. 22 11. 43 and 11. +1. -ions are accelerated up to 0,95 to 9,4 MeV in

ll_N+2, ll_N+3, and ll_N+l₁ -ions are accelerated up to 0,95 to 9,4 keV in a 72 cm cyclotron. The focussed beam penetrated a target at about 8 m distance from the cyclotron and was then deflected in a herizontal direction by a magnet. The targets consisted of a celluloid foil(~lQy/cm²) on to which in the vacuum beryllium (~ lowg/cm²), nickel (~lowg/cm²), and gold (15 - 30/wg/cm²) was vaporized.

The recording device consisted of proportionality counter tubes arranged one behind the other, which had an input surface of 110 x 0,1 mm² and one behind the other, which had an input surface of 110 x 0,1 mm² and ions were closed by cellophane (~70 mg/cm²). In the first counter all ions and in the second only ions with a certain charge were measured. The and in the second only ions with a certain charge were measured. The dependence of the average charge on the velocity of ions is graphically recorded.

A slight difference in the charge distribution of the ions after their passage through the above mentioned materials was found.

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Distribution of the Equilibrium of the Charge of Nitrogen Ions

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THE PROPERTY OF THE PROPERTY O FATEYEVA, L.N. 56-5-6/55 TEPLOVA, Ya.A., DMITRIYEV, I.S., NIKOLAYEV, V.S., On the Interaction of Lithium Ions with Matter. (vzaimodeystvii AUTHOR: ionov litiya s veshchestvom, Russian) Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol 32, Nr 5, TITLE: PERIODICAL: pp 974 - 978 (U.S.S.R.) In a 72 - cm cyclotron Li7 ions were accelerated to 0,5 to 5 MeV and their specific ionization in air and hydrogen, the equilibrium distribution of charge after passage through celluloid ABSTRACT: and their ranges in hydrogen, air, and in the photoemulsion NIKFI-YA,2 were determined. From the curves of the energy loss of the Li ions in air (expressed in MeV per 1 cm path) a maximum at about 7.108 cm/sec ion velocity can be observed, whereas for hydrogen a broad maximum between 4 and 8.108 cm/sec ion velocity is to As a result of the charge equilibrium distribution of the Li7 ions, after they had entered into interaction with a celluloid foil of ~ 20 µg/cm² thickness, the corresponding curves for 4 different The range curves of the Li ions in the emulsion NIKFI-YA-2 are compared with those of other photoemulsions. Card 1/2

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FATEYEVA, L.N.

Nikolayev, V. S., Dmitriyev, I. S., Fateyeva, L. N., Teplova, Ya. A. AUTHORS:

56-6-3/47

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TITLE:

The Equilibrium Distribution of Charges in a Beam of Ions of Light Elements (Ravnovesnoye raspredeleniye

zaryadov v puchke ionov legkikh elementov)

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskiy Fiziki, 1957,

Vol. 33, Nr 6(12), pp. 1325-1334 (USSR)

ABSTRACT:

The present paper determines the equilibrium distribution of the charges of the ions of light elements with nuclear charge numbers Z from 5 to 10 after their passage through hydrogen, air, argon, and through a celloid film. These ions had velocities of from 3,5 to 11,108 cm/sec, i.e. $v \sim 1,5 - 5 v_0$, where it holds that $v_0 = e^2/\hbar$.

As a source of the fast particles a 72 cm cyclotron was used, by means of which the following ions were accelerated:

 $11_{B}^{+1}, +2, +3; 13_{C}^{+2}, +3; 14_{N}^{+2}, +3; 16_{O}^{+2}, +3$

and $^{20}\text{Ne}^{+2,+3}$. The ion beam emerging from the cyclotron was deflected by a magnetic field after which it entered a

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The Equilibrium Distribution of Charges in a Beam of Ions of Light Elements

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re-charge chamber. The particles which passed through the chamber were analyzed by means of a magnet and were recorded by means of counters. The results of these measurements are illustrated by means of three diagrams. The distribution of charges in an ion beam in general differs after the passage through the various substances. Attention is also passage through the various for the dependence of the caused by the different character of the dependence of the relative intensities Φ_{i+1}/Φ_i upon the velocity ratio of the relative intensities Φ_{i+1}/Φ_i

of the substance when passing through solid and gaseous matter. (Here i denotes matter) During the passage of ions through different media the following peculiarities may be observed in the behavior of the degree of ionization 1/2. At 0,2 < 1 < 0,6 the average charge in argon is in all investigated ions larger than the average charge in investigated ions larger than the average charge in hydrogen (by about 10-20 %). The average charge in air hydrogen (by about 10-20 %). The average charge in hydrogen and argon. The average charge of the ions is, after having and argon. The average charge of the ions is, after having passed through a celluloid film, greater within a wide range of velocity than the average charge of ions in gases. With increasing nuclear charge number of the ions the average

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The Equilibrium Distribution of Charges in a Beam of Lons of Light Elements

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charge of ions after passage through the film increases much more rapidly than the average charge in air. The degree of ionization of the ions investigated here in air, hydrogen, and argon in the domain $0,2 \approx 1 \approx 0,6$ can be represented for every gas by a special function of the parameter $v/v_0 z^\alpha$ where $\alpha \sim 0,4$ holds in the case of all gases. In conclusion the authors discuss the here obtained results and compare them with those obtained by other authors. There are 7 figures, 2 tables, and 20 references, 7 of which are Slavic.

ASSOCIATION: Moscow State University (Moskovskiy gosudarstvennyy

universitet)

SUBMITTED: June 28, 1957

AVAILABLE: Library of Congress

Card 3/3

FATEYEVA, L. N.

56-7-63/66

AUTHOR TITLE

NIKOLAYEV, V.S., FATKIEVA, L.N., DMITRIYEV, I.S., TETLUVA, 12.A.,
The Re-Charge Cross Section of Nitrogen Ions in Gases

PERIODICAL

ABSTRACT

(Socheniya perezaryadki ionov azota v gazakh. Russian) Zuurnal Eksperim. i Teoret. Fiziki 1957, Vol 33, Nr 7, pp 306 - 307

 N^{+2} , N^{+3} , N^{+4} ions were accelerated to 1,3 - 9,7 MeV on a 72 cm cyclotron and the recharge cross section of these ions in nitrogen, argon, and hydrogen was measured. In form of curves the electron capture cross section and the electron loss cross section of N-ions in nitrogen is represented. The electron capture cross section for nitrogen and argon can be represented by $2\pi \cdot a_0^2(v_0/v)^5 i^{5/2} z^{1/2}$

(i - charge, ao, vo - Bohr's radius and velocity of the electron in the hydrogen atom, Z - atomic number of the investigated gas). The electron loss cross section 6, i+1 is 2 = 2,5 times greater in argon, and 6 - lo times smaller in hydrogen than that of nitrogen. (With 1 illustration and 4 Slavic references).

Card 1/2